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QBD311010	10,10,111			Application Number	10/518,226	FAX RE	CEIVED
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				First Named Inventor	Carl Christensen	APR 1	R 2007
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			U.S. PATENT	OCUMENTS	
Examiner	Clin	Document Number	Publication Date	Name of Palentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relovant Passages or Relevant
Initials *	Cite No.1	Number - Kind Code ² (# known)	MM-DO-YYYY		Figures Appear
	A	US-4860202	April 21, 1987	Zenith Electronics Corp	
	Y	US- 5740186	April 14, 1996	International Business Machine Corp.	
	×	US- 6125466	September 26. 2000	Cabletron Systems, Inc.	
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	FOREIGN PATENT DOCUMENTS					
	011-	Foreign Palent Document	Publication	Name of Palentee or	Peges, Columns, Unes, Where Relevant	
Examiner Initials*	Cite No.1	Country Code ⁸ - Number ⁴ - Kind Code ⁶ (if known)	Osie MM-DD-YYYY	Applicant of Cited Document	Passages or Relevant Figures Appear	T [₫]
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SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application Number EP 03 74 2042

ategory	Citation of document with inc		Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
(US 5 559 506 A (LEI	TCH CLIFFORD D [US])	1,3,12,	INV.
. 1	24 September 1996 (1496-09-24)	2	H03M13/29
	* column 9, line 28	- 11 ne 52 " 3 - column 13, line 13	4-11,	
	* Colonn 15' time 16	5 - COTUMBI 13, THE 23	14-17	
	* column 15, line 4 * column 18, line 20	- column 16, line 7 * 3 - column 19, line 10		•
	* figures 5,9 -1 4 *	•		
(US 6 125 466 A (CLO) 26 September 2000 (2	SE CIARAN B [IE] ET AL)	12	
1	* column 3, line 33	- column 4, line 21 *	1-11. 13-19	
Y	US 5 740 186 A (WID 14 April 1998 (1998	MER ALBERT X [US]) -04-14)	2	·
1	* abstract * * column 4, line 18	- column 5, line 59 *		
A	21 April 1987 (1987	DSUM GREGORY T [US]) -04-21)	1-19	TECHNICAL FIELDS SEARCHED (IPC)
	* column 2, line 5/ * figures 3-13 *	- column 7, line 52 *		G06F
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	The supplementary search report set of claims valid and available	_ · · · · · · · · · · · · · · · · · · ·		
*************	Place of search	Date of completion of the search		Examiner
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(CATEGORY OF CITED DOCUMENTS	T : theory or princip E : earlier patent do	dug tud ,mamuor	Invention lished on, or
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A · bon	hnological background	A14141161861-64161-1-411-1-411-1-411-1-411-1-411-1-411-1-411-1-411-1-411-1-411-1-411-1-411-1-411-1-411-1-411-1	ame palent femi	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 03 74 2042

This annex lists the patent family members relating to the potent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-02-2007

Patent document cited in search report		Publication date		Patent family member(8)	Publication dale
US 5559506	A	24-09-1996	CN EP WO US ZA	1151797 A 0811195 A1 9530956 A1 5710546 A 9503557 A	11-06-1997 10-12-1997 16-11-1995 20-01-1998 25-01-1996
US 6125466	Α	26-09-2000	NONE		
US 5740186	A	14-04-1998	EP JP JP US	0709979 A2 3254357 B2 8213969 A 5784387 A	01-05-1996 04-02-2002 20-08-1996 21-07-1998
US 4660202	Α	21-04-1987	NONE	4 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	~ · · · · · · · · · · · · · · · · · · ·
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